

Question			Answer	Marks	AO	Guidance
6			$(y =) -x^2 + c$	M1	3.1a	Allow omission of “y =”. Must include “+ c”
			$-13 = -4^2 + c$ $(c = 3)$	M1	1.1	FT their integral of $-2x$. Must include “+ c”
			$-x^2 + 3 = 2x$	A1FT	1.1	FT their integral of $-2x$ and their c
			$x^2 + 2x - 3 (= 0)$	M1	2.1	Rearrange their quadratic equation to solvable form. Must see this step
			$(x + 3)(x - 1) = 0$ or $(x + 1)^2 - 4 = 0$			
			or $x = \frac{-2 \pm \sqrt{2^2 - 4 \times 1 \times (-3)}}{2}$	M1	1.1	FT their c. May be implied by correct values for x
			$x = 1$ or -3	A1	1.1	
			$(1, 2) (-3, -6)$	A1	1.1	Condone $y=2, y=-6$ as long as clearly identified and paired. SC B1B1 for correct solutions without working in second half (i.e. max M1M1A1M0M0B1B1 5/7)
				[7]		